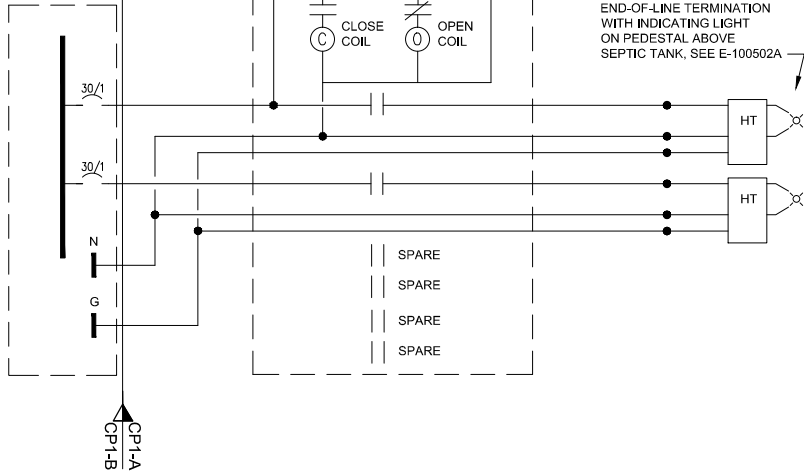


Drawing P:\2015\15021AN-LRDR\_RIM-HDQIE\CLR\_LRDR\_E-100503A.dwg last saved on 1/5/2017 3:42 PM was plotted by Josh Schultz on 1/6/2017 9:25 AM

2-POSITION SWITCH IN COVER OF CONTACTOR ENCLOSURE, LABEL SWITCH POSITIONS "ON" & "OFF"

PILOT LIGHT TO INDICATE "ON" CONDITION, MOUNT IN CONTACTOR COVER.

EP-90061003

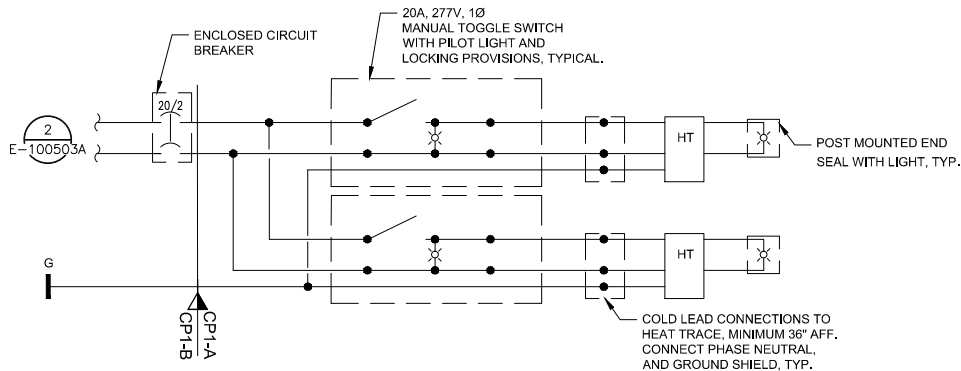


NOTES:

1. PROVIDE "SQUARE D" CLASS 8903, OR EQUAL, 30A, 277V, 6-POLE, MECHANICALLY HELD CONTACTOR W/ 277V COIL, CLEARING CONTACTS AND AUX. RELAY AS NOTED.
2. INSTALL IN NEMA 1 ENCLOSURE.
3. CONTACTOR AND CONTROLS SHOWN WITH HEAT TRACE DE-ENERGIZED OR "OFF".
4. PROVIDE A GROUND CONDUCTOR WITH ALL EXTERIOR CIRCUITS.
5. PROVIDE A NEUTRAL CONDUCTOR FOR ALL 277V EXTERIOR CIRCUITS.
6. LABEL "HEAT TRACE SANITARY SEWER - CIRCUIT A".
7. HEAT TRACE MANUAL CONTROLS SHALL BE IN AN ACCESSIBLE LOCATION.

## 1 SANITARY SEWER HT CONTROL CP-10017001 (CP-10017002 SIMILAR)

NOT TO SCALE



NOTES:

1. CONTROLS SHOWN WITH HEAT TRACE CABLE DE-ENERGIZED.
2. PROVIDE A GROUND.
3. CIRCUIT BREAKERS SHALL BE EQUIPMENT GROUND FAULT PROTECTIVE (35mA) TYPE.
4. LABEL "HEAT TRACE - BACKWASH WASTE" & "HEAT TRACE - BACKWASH WASTE - BACKUP".

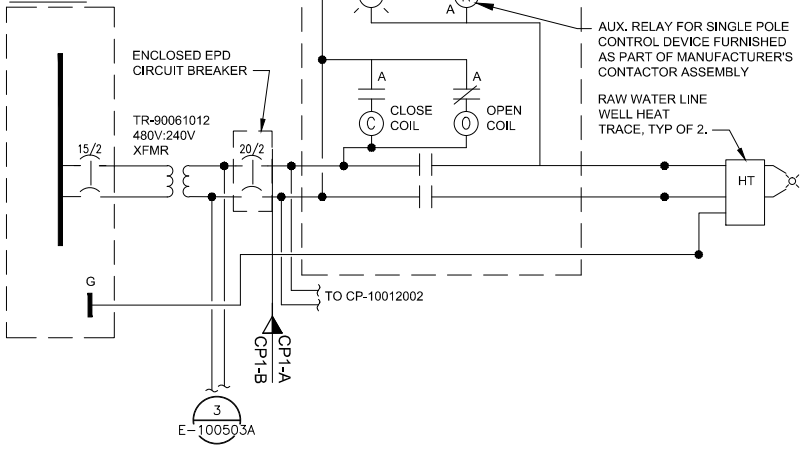
## 3 HEAT TRACE CONTROL BACKWASH WASTE LINE

NOT TO SCALE

2-POSITION SWITCH IN COVER OF CONTACTOR ENCLOSURE, LABEL SWITCH POSITIONS "ON" & "OFF"

PILOT LIGHT TO INDICATE "ON" CONDITION, MOUNT IN CONTACTOR COVER.

EP-90061002

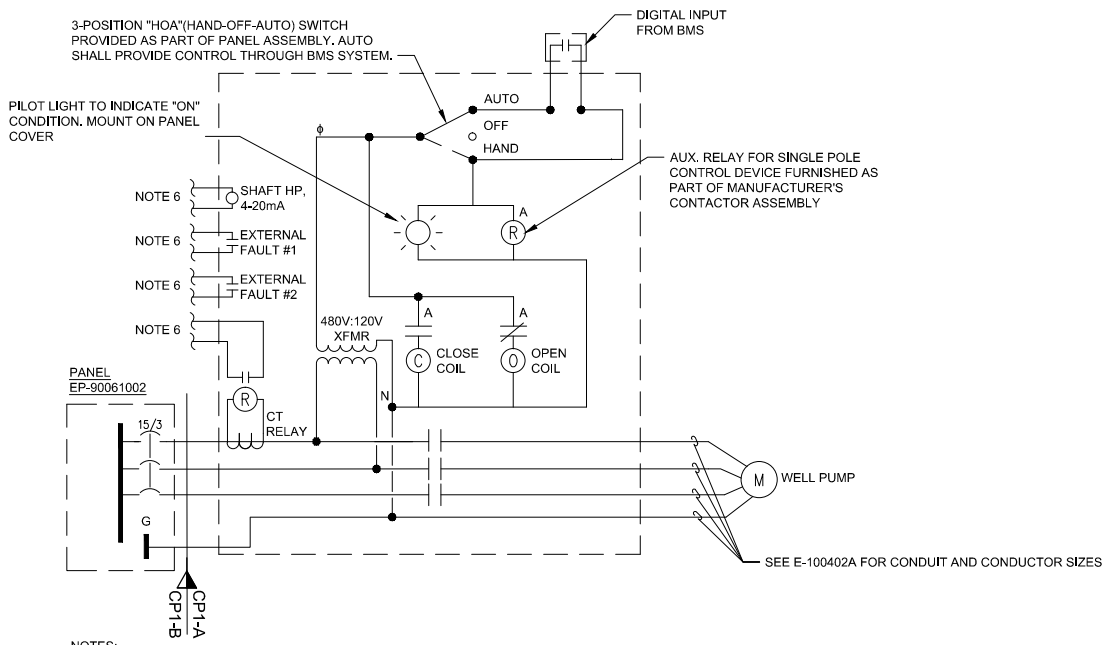


NOTES:

1. PROVIDE "SQUARE D" CLASS 8903, OR EQUAL, 30A, 240V, 6-POLE, MECHANICALLY HELD CONTACTOR W/ 240V COIL, CLEARING CONTACTS AND AUX. RELAY AS NOTED.
2. INSTALL IN NEMA 1 ENCLOSURE.
3. CONTACTOR AND CONTROLS SHOWN WITH HEAT TRACE DE-ENERGIZED OR "OFF".
4. PROVIDE A GROUND CONDUCTOR WITH ALL EXTERIOR CIRCUITS.
5. PROVIDE A NEUTRAL CONDUCTOR FOR ALL 277V EXTERIOR CIRCUITS.
6. LABEL "HEAT TRACE - RAW WATER/ WELL".
7. HEAT TRACE MANUAL CONTROLS SHALL BE IN AN ACCESSIBLE LOCATION.

## 2 RAW WATER LINE/ WELL HT CONTROL PANEL (CP-10012001 AND CP-10012002)

NOT TO SCALE



NOTES:

1. PUMP CONTROL PANEL WITH SOLID STATE OVERLOAD AND CONTROL TRANSFORMER, PROVIDED AS PART OF WELL PUMP PACKAGE.
2. CONTACTOR AND CONTROLS SHOWN WITH PUMP DE-ENERGIZED OR "OFF". WELL PUMP MONITORING CABLES NOT SHOWN.
3. PROVIDE A GROUND CONDUCTOR WITH ALL CIRCUITS.
4. WELL PUMP CONTROL PANEL SHALL BE INSTALLED INSIDE MCF
5. ALL BMS CONNECTIONS TO PDC-90065005A
6. DIGITAL/ANALOG OUTPUT TO BMS, SEE M900707B AND M900708B.

## 4 RAW WATER WELL PUMP CONTROL PANEL (CMS-10012001)

NOT TO SCALE

## GENERAL NOTES

1. FOR ELECTRICAL NOTES, LEGEND, AND ABBREVIATIONS, SEE SHEETS E-100001A, E-100002A AND E-100003A.



US Army Corps of Engineers  
Alaska District

CONTRACT NO.	DATE
CONTRACTOR	STATE
CITY	APPROVED
RECOMMENDED	REVIEWER
DATE	DATE

AM#7	ENERGY MON & CONTROLS	01/17	BKH
DATE	DATE	DATE	DATE

DATE	2016.11.16
DESIGNED	RDP
DRAWN	NW
REVIEWED	RDP
DATE	12
FILE	CLR_LRDR_E-100503A
DRAWING #	AF-141-391-01
W911KB-17-R-0010	MDA657

NOT FOR CONSTRUCTION

CLEAR AFS, ALASKA

LONG RANGE DISCRIMINATION RADAR

CONSTRUCTION PACKAGE 1 - VOLUME 1

WATER LINE CONTROLS

Reference number:

E-100503A



AM#7